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## ALII DRIVE SHORE PROTECTION PROJECT KAILUA-KONA, ISLAND OF HAWAII

**Project Location.** The project is located along Alii Drive in the town of Kailua-Kona on the western coast of the Island of Hawaii.

**Authorization.** The Alii Drive shore protection project was authorized under Section 14 of the Flood Control Act of 1946, as amended, in accordance with the policies and procedures prescribed by the Chief of Engineers.

**Local Sponsor.** The local sponsor is the Department of Public Works, County of Hawaii.

**Completed Work.** This project will provide protection and stabilization to the existing 700-foot long seawall. After a review and analysis of various alternatives, the plan to inject concrete into geotextile bags was chosen as the best alternative that met the planning objectives. The recommended alternative was considered to be the most economical as well as the environmentally preferred plan. The project included pumping concrete into geotextile bags that were placed in voids along the existing seawall foundation. No concrete was used at the Pa O 'Umi historical landmark or the existing storm drain outlet. Existing voids along the entire 700-foot reach of the Alii Drive seawall foundation were identified and located in the field by the U.S. Army 7<sup>th</sup> Engineer Detachment (Diving) personnel. The total project cost was \$360,000 of which the County of Hawaii funded \$126,000.

**Present Status.** An environmental assessment was completed in October 1996. A Public Notice for the Section 401 Water Quality Certification was published in the Hawaii Tribune Herald in January 1999. A Project Cooperation Agreement was executed in March 1999. Construction work began in August 1999. The construction work was final inspected and accepted by the Government on 21 January 2000.

**Future Efforts.** Routine O&M inspections by COE and DPW personnel.